



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/777,520	02/05/2001	Jari Syrjarinne	944-001. 043	8440

4955 7590 07/30/2003

WARE FRESSOLA VAN DER SLUYS &  
ADOLPHSON, LLP  
BRADFORD GREEN BUILDING 5  
755 MAIN STREET, P O BOX 224  
MONROE, CT 06468

EXAMINER

HARRY, ANDREW T

ART UNIT

PAPER NUMBER

2686

DATE MAILED: 07/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/777,520

Applicant(s)

SYRJARINNE, JARI

Examiner

Andrew T Harry

Art Unit

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 and 6. 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1- are rejected under 35 U.S.C. 102(e) as being anticipated by *Lau et al.*, U.S.

Patent 6,122,506 (“*Lau*”).

As pertaining to **claim 1**, *Lau* teaches a method, comprising the steps of:

a) having a cellular module respond to a cellular communication signal by providing a trigger pulse derived from the data component of the cellular communication signal (see *Lau*, col. 5, line 34-col. 6, line 57); and

b) directing the trigger pulse along a special hardware path leading from the cellular module to a user module (see *Lau*, col. 5, line 34-col. 6, line 57);

wherein the special hardware path conducts the trigger pulse in such a way that the trigger pulse is provided to the user module substantially free of any significant random delays (see *Lau*, col. 5, line 34-col. 6, line 57, in *Lau*'s teachings the trigger pulse appears to be drawn directly from the source, thus not introducing any significant random delays).

Art Unit: 2686

As pertaining to **claim 2**, in *Lau*'s method the user module includes a frequency generation module that provides a stable frequency reference based on the trigger pulse. See *Lau*, col. 5, line 34-col. 6, line 57, and Fig. 1 item 18.

As pertaining to **claims 3-5**, *Lau*'s method also includes the step of identifying each new frame, timeslot and bit in the cellular communications signal, and wherein the trigger pulse is provided each time a new frame, timeslot and bit is identified. See *Lau*, col. 4, line 31-col. 5, line 53, *Lau* described that each new bit is identified and a trigger bit is provided therewith, so clearly since each new frame or timeslot is lead by a bit they are identified.

As pertaining to **claim 6**, *Lau*'s method also includes the step of having the user module respond to a global positioning system (GPS) satellite navigation signal and also having the user module respond to the stable frequency reference by using the stable frequency reference to stabilize the operation of a local clock. See *Lau*, col. 6, line 28-col. 7, line 38.

As pertaining to **claim 7**, *Lau* teaches an apparatus comprising:

a) a cellular module, responsive to a cellular communication signal, for providing a trigger pulse derived from the data component of the cellular communication signal (see *Lau*, col. 5, line 34-col. 6, line 57);

b) a user module (see *Lau*, col. 6, line 28-col. 7, line 38); and

c) a special hardware path, for conducting the trigger pulse from the cellular module to the user module in such a way that the trigger pulse is provided free of any significant random delays. See *Lau*, col. 5, line 34-col. 6, line 57, in *Lau*'s teachings the trigger pulse appears to be drawn directly from the source, thus not introducing any significant random delays.

Art Unit: 2686

As pertaining to **claim 8**, the user module in *Lau*'s apparatus includes a frequency generation module that provides a stable frequency reference based on the trigger pulse. See *Lau*, col. 5, line 34-col. 6, line 57, and Fig. 1 item 18.

As pertaining to **claims 9-11**, *Lau*'s apparatus also comprises a bit counter that would be capable of identifying each new frame, timeslot and bit in the cellular communications signal, and wherein the trigger pulse is provided each time a new frame, timeslot and bit is identified. See *Lau*, col. 4, line 31-col. 5, line 53, *Lau* described that each new bit is identified and a trigger bit is provided therewith, so clearly since each new frame or timeslot is lead by a bit they are identified.

As pertaining to **claim 12**, *Lau*'s apparatus is a GPS receiver further comprising a GPS module including the frequency generation module, the GPS module also including a local oscillator (LO), the GPS module responsive to the stable frequency reference and further responsive to a GPS satellite navigation signal. See *Lau*, col. 6, line 28-col. 7, line 38, and Fig. 1 and 2.

As pertaining to **claim 13**, *Lau* teaches a system comprising:

- a) cellular base station, for providing a cellular communication signal (see *Lau*, col. 6 lines 28-57, the GSM phone obviously receives a signal fro a base station);
- b) a cellular module, responsive to the cellular communication signal, for providing a trigger pulse derived from the data component of the cellular communication signal (see *Lau*, col. 5, line 34-col. 6, line 57);
- c) a user module (see *Lau*, col. 6, line 28-col. 7, line 38); and

Art Unit: 2686

d) a special hardware path, for conducting the trigger pulse from the cellular module to the user module in such a way that the trigger pulse is provided free of any significant random delays. See *Lau*, col. 5, line 34-col. 6, line 57, in *Lau's* teachings the trigger pulse appears to be drawn directly from the source, thus not introducing any significant random delays.

As pertaining to **claim 14**, in *Lau's* system the user module includes a frequency generation module that provides a stable frequency reference based on the trigger pulse. See *Lau*, col. 5, line 34-col. 6, line 57, and Fig. 1 item 18.

As pertaining to **claims 15-17**, in *Lau's* system also comprises a bit counter that would be capable of identifying each new frame, timeslot and bit in the cellular communications signal, and wherein the trigger pulse is provided each time a new frame, timeslot and bit is identified. See *Lau*, col. 4, line 31-col. 5, line 53, *Lau* described that each new bit is identified and a trigger bit is provided therewith, so clearly since each new frame or timeslot is lead by a bit they are identified.

As pertaining to **claim 18**, in *Lau's* system is a GPS receiver further comprising a GPS module including the frequency generation module, the GPS module also including a local oscillator (LO), the GPS module responsive to the stable frequency reference and further responsive to a GPS satellite navigation signal. See *Lau*, col. 6, line 28-col. 7, line 38, and Fig. 1 and 2.

Art Unit: 2686

*Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


B. Bloebaum, U.S. Patent 6,295,023 teaches methods, mobile stations and systems for acquiring global positioning system timing information.

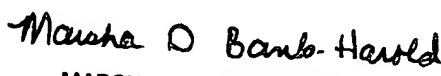
C. Eshenbach, U.S. patent 5,663,735 teaches a GPS receiver using a radio signal for improving time to first fix.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew T Harry whose telephone number is 703-305-4749. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on 703-305-4379. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

  
ATH  
July 22, 2003

  
MARSHA D. BANKS-HAROLD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600